			SI	
	Application No.	Applicant(s)		
AL C. CALL LINE	09/943,811	LAROIA, RAJIV		
Notice of Allowability	Examiner	Art Unit		
	Juan A. Torres	2611		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. This communication is responsive to Request for Continued Examination (RCE) filed on 11/10/2006.				
2. The allowed claim(s) is/are <u>1-6,8-13,15-20,22-26,28-39,41</u>	.42,44,45,51-55,57,61 and 62. Renu	mbered to 1-47.		
3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the:				
Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s)				
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	* *		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Dat 	(PTO-413), e .		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amenda	nent/Comment		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	8. Examiner's Statement of Reasons for Allowance		
or biological Material	9.			
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/10/2006 has been entered.

Allowable Subject Matter

Claims 1-6, 8-13, 15-20, 22-26, 28-39, 41-42, 44-45, 51-55, 57, 61 and 62 are allowed.

The following is an examiner's statement of reasons for allowance: claims 1-6, 8-13, 15-20, 22-26, 28-39, 41-42, 44-45, 51-55, 57, 61 and 62 are allowed because the references cited fail to teach, as applicant has, generating a second prefix part from the included periodic signal representing the preceding symbol, generating in parallel, for each one of N tones, a separate periodic signal including at least one high order harmonic signal component that is different from the fundamental frequency signal component of the tone, where the generated periodic signal includes a square wave, and transmitting the generated N periodic signals into a communications channel, separately generating, for each one of N tones, a passband periodic signal representing a symbol, at least some of the N generated passband periodic signals include a high order harmonic signal component in addition to a fundamental frequency signal

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component, the high order harmonic signal component having a frequency which is higher than the frequency of the fundamental signal component, and transmitting the N generated passband periodic signals, rotating the constellation of symbols from which consecutive symbols are transmitted using one of the N tones by a fixed amount which is function of the duration of the multi-part prefix, N periodic signal generator circuits for generating periodic signals, each periodic signal corresponding to a different tone one of the N tones of the multi-tone signal, where the generated periodic signal includes a square wave having a frequency component corresponding to one of the N tones of the multi-tone signal; and generating a multi-part prefix from a first periodic signal including performing a cyclic extension operation on the first periodic signal to generate a cyclic prefix portion, processing the cyclic prefix portion to generate a continuity prefix portion from the cyclic prefix portion, and appending the cyclic prefix portion to the end of the continuity prefix portion, as the applicant has claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juan A. Torres whose telephone number is (571) 272-3119. The examiner can normally be reached on Monday-Friday 9:00 AM - 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Juan Alberto Torres 11-28-2006

TEMESCHENICHEBRE PRIMARY EXAMINATOR